

PATENT COOPERATION TREATY

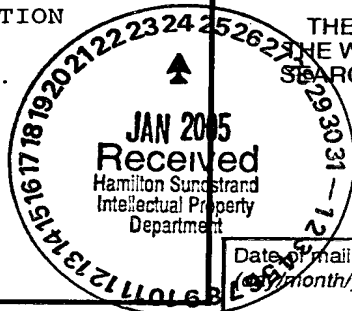
From the INTERNATIONAL SEARCHING AUTHORITY

PCT

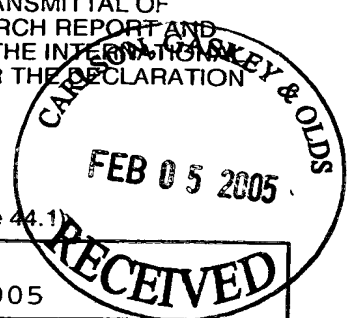
To:

HAMILTON SUNDSTRAND CORPORATION
One Hamilton Road
Attn. Stephenson, Gregory R.
MS 1-1-BC18
Windsor Locks, CT 06096
UNITED STATES OF AMERICA

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE WRITTEN OPINION OF THE INTERNATIONAL
SEARCHING AUTHORITY, OR THE DECLARATION



(PCT Rule 44.1)



Date of mailing
(day/month/year)

14/01/2005

Applicant's or agent's file reference

H2726-EC

FOR FURTHER ACTION

See paragraphs 1 and 4 below

International application No.

PCT/US2004/030941

International filing date
(day/month/year)

22/09/2004

Applicant

HAMILTON SUNDSTRAND CORPORATION

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes
1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ **With regard to the protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

- ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until **30 months** from the priority date (in some Offices even later); otherwise, the applicant must, within **20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentlaan 2
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Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
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Authorized officer

Bronac Murphy-Minehane

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
"Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
2. [Where originally there were 15 claims and after amendment of all claims there are 11]:
"Claims 1 to 15 replaced by amended claims 1 to 11."
3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
4. [Where various kinds of amendments are made]:
"Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference H2726-EC	FOR FURTHER ACTION <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</small>	
International application No. PCT/US2004/030941	International filing date (day/month/year) 22/09/2004	(Earliest) Priority Date (day/month/year) 22/09/2003
Applicant HAMILTON SUNDSTRAND CORPORATION		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2004/030941

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A mixer(16) includes a fresh air tube(40) defining a passage(42) having an inlet(44) receiving conditioned air(14) from an air conditioning pack(12). The fresh air tube(40) includes an outlet(46) providing mixed air(18) to a cabin(22) of the aircraft. An outer tube(48) at least partially surrounds the fresh air tube(40) and receives recirculated air(26) from the cabin(22). Multiple holes(54) in the fresh air tube(40) fluidly connect the outer tube(48) to the fresh air tube(40). The warm recirculation air(26) surrounds the portion of the fresh air tube(40) to heat it preventing ice from forming. The warm recirculation air(26) entering the fresh air tube(40) through the holes homogeneously mixes with the conditioned(14) air from the pack(12) to provide a uniform mixture of air within the fresh air tube(40), which further ensures the prevention of ice build up.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/030941

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B64D13/00 F24F13/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B64D F24F B01F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 599 437 A (ROY PHILIPPE) 4 December 1987 (1987-12-04) abstract page 1, lines 13-29 figures 1,2	1-3,5,6
X	WO 01/11292 A (RESARO AB ; WEGLER GEORGE (SE)) 15 February 2001 (2001-02-15) page 19, lines 19-33 figure 15	1-3,5,6
A	US 5 516 330 A (SCHERER THOMAS DR ING ET AL) 14 May 1996 (1996-05-14) column 9, lines 20-33 figure 2	4,7-10
	----- -/--	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

8 document member of the same patent family

Date of the actual completion of the international search

4 January 2005

Date of mailing of the international search report

14/01/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Pedersen, K

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/030941

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/066324 A (UNITED TECHNOLOGIES CORP) 29 August 2002 (2002-08-29) page 7, lines 10,11 figure 2B -----	4,7-10
A	GB 671 567 A (GARRETT CORP) 7 May 1952 (1952-05-07) figure -----	8-10
A	US 5 634 964 A (ARMY JR DONALD E ET AL) 3 June 1997 (1997-06-03) column 2, lines 44-67 column 3, lines 25-53 figures 1,3,4 -----	8-10
A	US 5 133 194 A (MCAULIFFE CHRISTOPHER ET AL) 28 July 1992 (1992-07-28) abstract; figures 1,4,5 -----	8,10

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/030941

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
FR 2599437	A	04-12-1987	FR 2599437 A1	04-12-1987
WO 0111292	A	15-02-2001	WO 0111292 A1	15-02-2001
			AU 6375499 A	05-03-2001
US 5516330	A	14-05-1996	DE 4335152 C1	20-04-1995
			DE 59401392 D1	06-02-1997
			EP 0648671 A1	19-04-1995
			JP 3566353 B2	15-09-2004
			JP 7156893 A	20-06-1995
			RU 2089791 C1	10-09-1997
WO 02066324	A	29-08-2002	WO 02066324 A2	29-08-2002
			US 2002162914 A1	07-11-2002
GB 671567	A	07-05-1952	NONE	
US 5634964	A	03-06-1997	DE 69600726 D1	05-11-1998
			DE 69600726 T2	27-05-1999
			EP 0808273 A1	26-11-1997
			ES 2123344 T3	01-01-1999
			WO 9625329 A1	22-08-1996
US 5133194	A	28-07-1992	NONE	

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

see form PCT/ISA/220

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference
see form PCT/ISA/220

FOR FURTHER ACTION
See paragraph 2 below

International application No.
PCT/US2004/030941

International filing date (day/month/year)
22.09.2004

Priority date (day/month/year)
22.09.2003

International Patent Classification (IPC) or both national classification and IPC
B64D13/00, F24F13/04

Applicant
HAMILTON SUNDSTRAND CORPORATION

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☒ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☒ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



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Authorized Officer

Pedersen, K

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**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/US2004/030941

Box No. I Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 - ☐ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material:
 - ☐ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material:
 - ☐ in written format
 - ☐ in computer readable form
 - c. time of filing/furnishing:
 - ☐ contained in the international application as filed.
 - ☐ filed together with the international application in computer readable form.
 - ☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/US2004/030941

Box No. II Priority

1. ☒ The following document has not been furnished:

- ☒ copy of the earlier application whose priority has been claimed (Rule 43*bis*.1 and 66.7(a)).
- ☐ translation of the earlier application whose priority has been claimed (Rule 43*bis*.1 and 66.7(b)).

Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.

2. ☐ This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43*bis*.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.
3. ☐ It has not been possible to consider the validity of the priority claim because a copy of the priority document was not available to the ISA at the time that the search was conducted (Rule 17.1). This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.
4. Additional observations, if necessary:

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	4,7-10
	No: Claims	1-3,5,6
Inventive step (IS)	Yes: Claims	4,7-10
	No: Claims	1-3,5,6
Industrial applicability (IA)	Yes: Claims	1-10
	No: Claims	

2. Citations and explanations

see separate sheet

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Point V, 2

1. Numbering of cited documents (D):

D1: FR-A-2 599 437
D2: WO-A-01 11292
D3: US-A-5 516 330
D4: WO-A-02 066324
D5: GB-A-671 567
D6: US-A-5 634 964
D7: US-A-5 133 194

2. Independent claim 1:

2.1 D1 discloses

a mixer *suitable for* an aircraft air conditioning system (in the general terms of claim 1) comprising:

a first tube (1) having a passage extending between an inlet and an outlet;
and

a second tube (2, 4) at least partially surrounding said first tube and forming a cavity (see Figure 1), said first tube having a hole fluidly connecting said first tube and said cavity (cf. p. 1, l. 15-16).

The subject-matter of claim 1 is therefore not new (Articles 33(1) and (2) PCT).

2.2 D2 also discloses a mixer on which the wording of claim 1 can be read (cf. Figure 15), the subject-matter of which is therefore also not new in view of D2 (Articles 33(1) and (2) PCT).

3. Dependent claims 2-7:

3.1 The additional features of claims 2, 3, 5 (see Point VIII below!) and 6 would also appear to be known from D1 and D2.

3.2 None of the cited documents disclose or provide any leads to the additional features of claim 4 and 7 in order to obtain a mixer which does not lead

recirculated air to the cockpit. D3 and D4 provide conditioned air to the flight deck by bypassing the mixer (in which conditioned and recirculated air is mixed) completely.

4. Independent claim 8:

4.1 In the wording of claim 8 the document D5 discloses:

An aircraft air conditioning system comprising:
a pack producing conditioned air (6, 7; cf. p. 2, l. 93-107);
a cabin (5) providing recirculation air;
a mixer fluidly connected between said pack and said cabin, said mixer including a fresh air tube (12) having a passage extending between an inlet fluidly connected to said pack (at 11) and an outlet (at 42) fluidly connected to said cabin;
an outer tube (13) at least partially arranged about at least a portion of said fresh air tube forming a cavity (in which partition 19 is located), said outer tube having a recirculation air inlet (at 24/24') connected to said cabin (through duct 15).

4.2 The subject-matter of claim 8 differs from this known system in further comprising a hole in said fresh air tube fluidly connecting said cavity and said passage (in D1, recirculated and fresh air is mixed at the inlet and/or the outlet of said passage) and is therefore new (Articles 33(1) and (2) PCT).

4.3 There are no indications in the cited prior art to the provision of this feature in order to obtain a compact air conditioning system with a smaller mixer that is not subject to ice build up while still producing a uniform mixed air outlet temperature:

D5 employs a valve arrangement (25) for selectively circulating hot recirculated air about and through the fresh air tube as well as a water trap (27) in order to avoid icing in the cold air duct. While D1 and D2 each discloses a mixer also comprising the distinguishing feature of claim 8, there are no indications in these documents that these mixers could result in the above-mentioned effects being obtained when employed in the system of D5. In particular, none of these documents mention or imply that an ice build up can be avoided. Consequently, no incentive exists for the skilled person to replace the mixer of D5 with the one of D1 or D2.

D6 and D7 both disclose aircraft air conditioning systems where the fresh and recirculated air merges at the outlet of a fresh air tube.

D3 and D4 merely disclose avoiding recirculated cabin air in the cockpit by bypassing the mixer completely, the latter not being described in detail.

The subject-matter of claim 8 therefore involves an inventive step (Articles 33(1) and (3) PCT).

5. Dependent claims 9 and 10:

- 5.1 Claims 9 and 10 are dependent on claim 8 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

Point VII

1. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1-D3 and D5 is not mentioned in the description, nor are these documents identified therein.
2. The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).

Point VIII

1. The additional features of claim 5 (and to a large extent those of claims 2 and 3) are not additional technical features of the mixer as such, but rather features relating to its use.